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CL		US 5721070 B1	2/24/98	Shackle		
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U.S. PATENT DOCUMENTS							
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1.	C	e	3,736,184	5/29/73	Dey et al.		
2.			4,009,092	2/22/77	Taylor		
3.			4,049,891	9/20/77	Hong et al		
4.			4,098,687	7/4/78	Yang		
5.			4,166,159	8/28/79	Pober		
6.			4,194,062	3/18/80	Carides et al.		
7.			4,322,485	3/30/82	Harrison et al.		
8.			4,394,280	7/19/83	von Alpen et al.	:	
9.			4,464,447	8/7/84	Lazzari et al.		
10.			4,465,744	8/14/84	Susman et al.		
11.			4,477,541	10/16/84	Fraioli		
12.			4,512,905	4/23/85	Clearfield et al.	W	
13.			4,668,595	5/26/87	Yoshino et al.		
14.			4,707,422	11/17/87	de Neufville et al.		
15.			4,792,504	12/20/88	Schwab et al.		
16.			4,828,834	5/9/89	Nagaura et al.		·
17.			4,830,939	5/16/89	Lee et al.		
18.			4,935,317	6/19/90	Fauteux et al.		
19.			4,985,317	1/15/91	Adachi et al.		
20.			4,990,413	2/5/91	Lee et al.	,	
21.	V		5,037,712	8/6/91	Shackle et al.		

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### PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION

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U.S. PATENT DOCUMENTS						
Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
22.	CC	5,130,211	7/14/92	Wilkinson et al.		
23.		5,232,794	8/3/93	Krumpelt et al.		
24.		5,262,253	11/16/93	Golovin		
25.		5,300,373	4/5/94	Shackle		
26.		5,336,572	8/9/94	Koksbang		
27.		5,399,447	3/21/95	Chaloner-Gill et al.		
28.		5,411,820	5/2/95	Chaloner-Gill		
29.		5,418,090	5/23/95	Koksbang et al.		
30.		5,418,091	5/23/95	Gozdz et al.		
31.		5,425,932	6/20/95	Tarascon		
32.		5,435,054	7/25/95	Tonder et al.		
33.		5,456,000	10/10/95	Gozdz et al.		
34.		5,460,904	10/24/95	Gozdz et al.		
35.		5,463,179	10/31/95	Chaloner-Gill et al.		
36.		5,482,795	1/9/96	Chaloner-Gill		
37.		5,514,490	5/7/96	Chen et al.		
38.		5,540,741	7/30/96	Gozdz et al.		
39.		5,580,430	12/3/96	Balagopal et al.		
40.		5,643,695	7/1/97	Barker et al.		
41.	V	5,674,645	10/7/97	Amatucci et al.		-

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U.S. PATENT DOCUMENTS						
Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate)
42.	ce	5,702,995	12/30/97	Fu		
43.		5,910,382	6/8/99	Goodenough et al.		,
44.		6,004,697	12/21/99	Thackeray et al.		
45.	J	6,153,333	11/28/00	Barker -		

FORE	FOREIGN PATENT DOCUMENTS						
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1.	a	EP 1 049 182	11/2/00	Europe		Х	
2.		EP 1 093 172	4/18/01	Europe		х	l
3.		EP 0 680 106	11/2/95	Europe		х	
4.		WO 00/01024	1/6/00	WIPO	-		
5.		WO 98/12761	3/26/98	WIPO			
6.		WO 99/30378	6/17/99	WIPO			
7.		WO 00/57505	9/28/00	WIPO			
8.		JP 61-263069	11/21/86	Japan		Abstract	
9.	V	JP 6-251764	9/9/94	Japan		Abstract	

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OTHE	R DOCUME	ENTS (including Author, Title, Date, Pertinent Pages, etc.)
Ref. Desig.	Examiner's Initials	
1.	ce	A. B. Bykov et al., Superionic Conductors Li3M2(PO4)3 (M=Fe, Sc, Cr): Synthesis, Structure and Electrophysical Properties, Solid State Ionics 38 (1990) 31-52.
2.		Rangan et al., New Titanium-Vanadium Phosphates of Nasicon and Langbeinite Structures, and Differences between the Two Structures Toward Deintercalation of Alkali Metal, Journal of Solid State Chemistry 109, 116-121 (1994).
3.		Kirkby et al, Crystal Structure of Potassium Aluminum Fluoride Phosphate, KAIFPO4, Department of Chemistry, University of Toronto, Toronto, Ontario, Canada, M5S 1A1.
4.		J. Arlt et al., Na5AIF2(PO4)2: Darstellung, Kristallstruktur und Ionenleitfahigkeit, Z. anorg. allg. Chem. 547 (1987) 179-187.
5.	·	P G Nagornyi et al., Preparation and Structure of the New Flouride Phosphate Na5CrF2(PO4)2, Russian Journal of Inorganic Chemistry 35 (4) 1990.
6.		Loiseau et al., NH4FePO4F: Structural Study and Magnetic Properties, Journal of Solid State Chemistry III, 390-396 (1994).
7.		LeMeins et al., Phase Transitions in the Na3M2(PO4)2F3 Family (M=Al3+, V3+, Cr3+, Fe3+, Ga3+): Synthesis, Thermal, Structural, and Magnetic Studies, Journal of Solid State Chemistry 148, 260-277 (1999).
8.		Yakubovich et al., Inorganic Compounds: The Mixed Anionic Framework in the Structure of Na2{MnF[PO4]}, Acta Cryst. (1997) C53, 395-397.
9.		Moss et al., On the X-ray Identification of Amblygonite and Montebrasite, Mineralogical Magazine, September 1969, vol. 37, No. 287.
10.		LeMeins et al., Ionic Conductivity of Crystalline and Amorphous Na3Al2(PO4)2F3, Solid State Ionics III (1998) 67-75.
11.		M. Dutreilh et al., Synthesis and Crystal Structure of a New Lithium Nickel Fluorophosphate Li2 [NiF(PO4)] With an Ordered Mixed Anionic Framework, Journal of Solid State Chemistry 142, 1-5 (1999).
12.		Manthiram et al., Lithium Insertion Into Fe2(SO4)3 Frameworks, Journal of Power Sources, 26 (1989) 403-408.
13.	V	Amblygonite Mineral Data; http://webmineral.com/data/Amblygonite.shtml.

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Examiner: (M	1(hm)	Date Considered:	10-1

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### PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION

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OTHE	R DOCUME	NTS (including Author, Title, Date, Pertinent Pages, etc.)
Ref. Desig.	Examiner's Initials	·
14.	ce	Lacroixite Mineral Data, http://webmineral.com/data/Lacroixite.shtml
15.		Montebrasite Mineral Data, http://webmineral.com/data/Montebrasite.shtml
16.		Tavorite Mineral Data, http://webmineral.com/data/Tavorite.shtml
17.		A. Nadiri et al., Lithium Intercalation in Lithium Titanium Phosphate, C. R. Acad. Sci., Ser. 2 (1987), 304 (9), 415-18 (Abstract Provided).
18.		Genkina et al., Phase Formation and Crystallochemistry of Iron Phosphates Formed Under Hydrothermal Conditions, Izv. Akad. Nauk SSSR, Neorg. Mater. (1988), 24 (7), 1158-62 (Abstract Only).
19.		Genkina et al., Crystal Structure of Synthetic Tavorite (LiFe[PO4] (OH,F)), Kristallografiya (1984), 29 (1), 50-5 (Abstract Only).
20.		International Search Report, PCT/US01/08132
21.		Mt. Averbuch-Pouchot et al., "Topics in Phosphate Chemistry", World Scientific 1996.
22.		J. Gopalakrishnan et al., V2(PO4)3: A Novel NASICON-Type Vanadium Phosphate Synthesized by Oxidative Deintercalation of Sodium from Na3V2(PO4)3, Chem. Mater., Vol. 4, No. 4, 1992, p. 745-747.
23.	V	International Search Report, PCT/US00/04401 (attached to WO 00/57505)

Examiner: (MN/Chr)

Date Considered:

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FORM HDP-1449 (Based on Form PTO-1449)

### PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION

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1.	CC	6,153,333	11/28/2000		Subclass	Filing Date
2.		5,674,645	10/07/1997	Amatucci et al.		<del> </del>
3.		5,514,490	05/07/1996	Chen et al.		
4.		4,985,317	01/15/1991	Adachi et al.		
5.		4,512,905	04/23/1985	Clearfield et al.		
6.		4.049,891	09/20/1977	Hong et al.		<del> </del>
7.	}	4,009,092	02/22/1977	Taylor		
8.	V	3,736,184	05/29/1973	Dey et al.		

FORE	IGN PATEN	IT DOCUMENTS					
Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/	Translation	
1.	9	EP 0 680 106 A1	11/02/1995	EPO	Subclass	Yes	No
2.	a	JP 61-263069	11/21/1986	JP		Yes	
3.	E	WO 98 12761 A	03/26/1998	US		Abstract Yes	ļ

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C	V	International Search Report for PCT/US97/15544; EPO - 01/13/1998					
		Delmas et al., "The Nasicon-typeMaterials"; SSI (1988) 28-30 (419-423)					
$\sqrt{2}$	/	Hagenmuller et al., "Intercalation in 3-DFeatures"; Mat. Res. Soc. Proc., SSI, (1991) 323-					
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4.		Z	Chem. Abstrs. Svs., (1997); XP 2048304
5.			Padhi et al., "Lithium Intercalation into Nasicon-typeand Li₂FeTi(PO₄)₃" 37th Power Sources Conference; Cherry Hill, New Jersey; Conference Date: June 17-20, 1996, published Oct. 15, 1996
6.			J. Gopalakrishnan and K. Kasthuri Rangan, "V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> : A Novel NASICON-Type Vanadium Phosphate Synthesized by Oxidative Deintercalcalation of Sodium from Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> ," Chemistry of Materials, Vol. 4, No., 4, 745-747, July/August 1992
7.		i	K. Kasthuri Rangan and J. Gopalakrishnan, "New Titanium-Vanadium Phosphates of Nasicon and Langbeinite Structures, and Differences Between the Two Structures Toward Deintercalation of Alkali Metal," Journal of Solid State Chemistry, 109, 116-121, 1994
8.			Delmas et al., "The Chemical Short Circuit Method", Mat. Res. Bull., Vol 23, pp. 65-72 (month not available), 1988
9.		•	Ivanov-Schitz et al., "Electricalelectrodes"; SSI (Oct 96) 91 (93-99)
10.		ŧ.	Cretin et al., "StudySensors", JR. EP. Ceramic Soc., (1995) (Vol. 15, No. 11) (1149-56)
11.			Chem. Abstrs. Svs., (1995) XP 2048305
12.			Patents Abstracts of Japan (1994) Vol. 18, No. 64 (Abstr. for JP 06251764)
13.			Okada et al., "Fe <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> as a Cathode Material for Rechargeable Lithium Batteries", status as publication to be verified; cited by Examiner in SN 08/717,979
14.			Adachi et al., "Lithium Ion Conductive Solid Electrolyte", Chemical Abstracts 112 129692 (1981)
15.		46	Delmas et al., "A Nasicon-Type Phase as Intercalation Electrode: Sodium Titanium Phosphate (NaTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> ", Mater. Res. Bull. (1987)
16.	+		Nanjundaswamy et al., "Synthesis, Redox Potential Evaluation and Electrochemical Characteristics of NASICON-Related-3D Framework Compounds", SSI 92 (1996)
17.	1	/	K. Kubo et al., "Synthesis and Electrochemical Properties for LiNiO₂ Substituted by Other Elements", Journal of Power Sources 68 (1997), pp. 553-557

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#### FORM HDP-1449 (Based on Form PTO-1449)

## PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION

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OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)		
Ref. Desig.	Examiner's Initials	
18.	a	"Topics in Phosphate Chemistry", M-T Averbuch-Pouchot, A. Durif, World Scientific Publishing Co., Ptc. Ltd.
19.		Padhi et al., "Phosopho-Olivines as Positive-Electrode Materials for Rechargeable Lithium Batteries", J. Electrochem. Soc., Vol. 144, No. 4, April 1997, pp. 1188-1194
20.	L K	Search Report for PCT/US00/04401; US - July 31, 2000

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